



SUREKEY EXAMINATIONS BOARD

PRIMARY SEVEN PLACEMENT SET EXAMINATION

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	EMIS No.					Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **15 printed pages** altogether
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: "**For Examiners' Use only**" and boxes inside the question paper.

FOR EXAMINERS USE ONLY		
Qn.No.	MARKS	EXR'S NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: 40 MARKS

Answer all questions in this Section

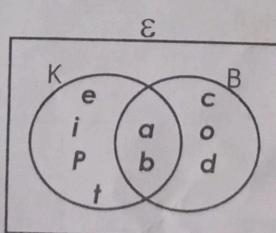
Questions 1 to 20 carry two marks each

1. Workout: $300 - 100$.

2. Express XCIV in words.

3. Given that $a = 5$ and $b = 3a$. Find the value of $3b - 20$.

4. Use the Venn diagram below to find $n(K \cap B)'$.



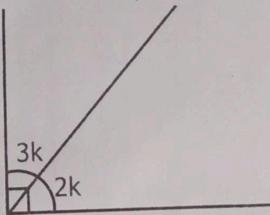
5. Find the next two numbers in the sequence below:

1, 3, 6, 10, 15,,



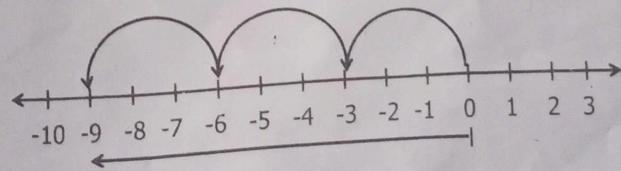
6. Using a pair of compasses, ruler and pencil only, construct an angle of 135° in the space below.

7. Calculate the value of k in degrees in the figure below.



8. Solve for p : $3p - 4 = p + 10$.

9. Write the mathematical statement represented on the number line below.



10. A Primary two pupil tallied the number of buses along Kampala - Lira Highway on a certain day as follows.

|||| |||| |||| |||| |||| |||| |||| III

How many buses did the pupil count?



11. In a class of 120 pupils, $\frac{3}{5}$ of them are boys. Find the number of girls in the class.

12. Add: Weeks Days.

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$
$$\begin{array}{r} 3 \\ 6 \\ \hline \end{array}$$

13. Given that 1 USD costs Ugsh.3,650. How many US dollars will Okumu get if he had Ugsh.14,600?

14. Write the

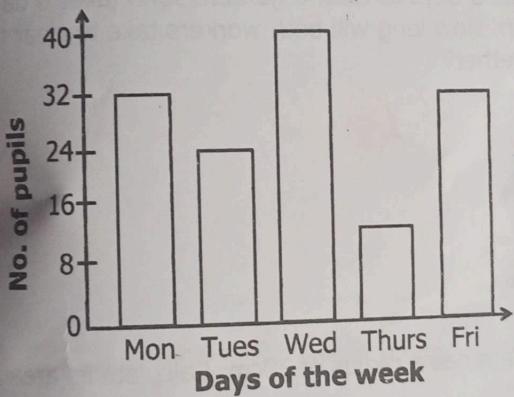
15. The graph
first week
300 pupils

16. Decrease

mpala – Lira

14. Write the number whose scientific form is 4.03×10^4 .

15. The graph below shows the number of pupils who were absent during the first week of Term I at ABEK Boarding Primary School in a P.6 class of 300 pupils.



Calculate the average absence of the pupils for the week.

16. Decrease 480 oranges in the ratio 4:5.

Turn Over

17. The driver of A.K bus left Kampala at 12:08a.m and arrived Soroti at 6:38a.m. Express the departure time on a 24-hour clock system.

21. In a certain year, there were 365 days in both months of January and February. The number of days in March was 12 more than the number of days in April. (a)

18. Samuel takes 3 days to clear a garden. John takes 6 days to clear the same garden. How long will both workers take to clear the same garden working together?

19. A circular plate has a radius of 30cm. Calculate its area (Use π as 3.14) (b)

20. The product of two numbers is 54. The LCM of the two numbers is 18. Find their GCF. (c)



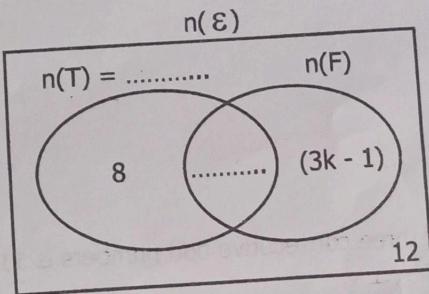
SECTION B: 60 MARKS

Answer all questions in this section

Marks for each question are indicated in brackets.

21. In a certain team, 8 participated in Track events (T) only. $(k+2)$ participated in both Track and Field events while $(3k - 1)$ participated in Field events (F) only. The number of those who did not participate in any of the two events was 12.

- (a) Complete the Venn diagram below using the above information. (02 Marks)



- (b) Find the value of k if 17 participated in field events. (02 Marks)

- (c) How many participants were in the team altogether? (02 Marks)

22. (a) Express 1101_{two} in decimal base. (02 Marks)

24.

(b) Multiply: $1111_{\text{two}} \times 10_{\text{two}}$. (02 Marks)



23. The sum of three consecutive odd numbers is 111. If the largest number is t.

(a) Workout the numbers. (04 Marks)

25. (a)

(b) What should be added to the least number in order to get the largest number? (01 Mark)

24. The table below shows a bank slip used by a businessman to deposit money in the bank.

Denominations	Number of notes	Amount
Sh.50,000	15	Sh.
Sh.20,000	Sh. 40,000
Sh.10,000	18	Sh. 180,000
Sh.5,000	Sh.
Sh.2,000	10	Sh.
Sh.1,000	7	Sh. 7,000
TOTAL AMOUNT		Sh. 1,482,000

Complete the table above.

(05 Marks)



25. (a) Solve for x : $4(3x + 6) - 3(2x - 4) = 24$. (03 Marks)

27. The figure
Study an

(b) If $m = 3$, $n = -4$ and $p = 2$. Find the value of $\frac{pm - n}{m - n}$.

(02 Marks)

26. In a P.6 class of 360 pupils, there are 20% more boys than girls.

(a) Find the percentage of boys in the class. (02 Marks)

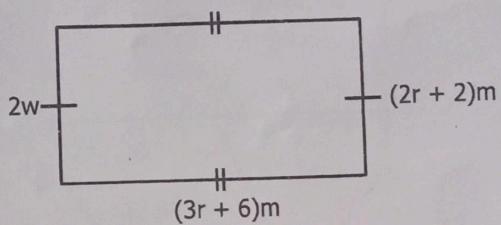
(a) F

(b) How many girls are in the class? (02 Marks)

(b) W

(c) Express the number of boys as a ratio of the number of girls in the class. (02 Marks)

27. The figure below shows a rectangular garden whose perimeter is 46cm.
Study and carefully use it to answer the questions that follow.



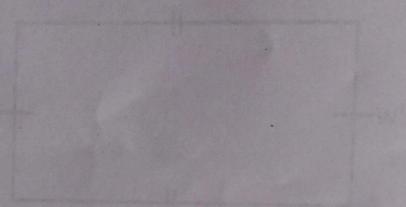
(a) Find the value of r .

(03 Marks)

(b) Work out the value of w .

(02 Marks)

27. (a) Using a pair of compasses, a ruler and a pencil only, construct a regular pentagon in a circle of diameter 9cm. (04 Marks)



30. The circle
different g

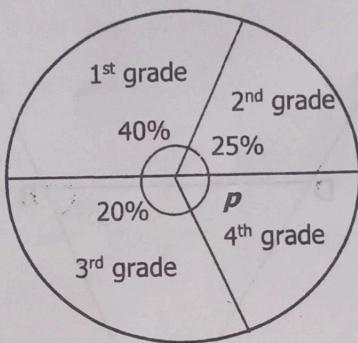
29. The table below shows how pupils at Namutyobola Primary School performed in their End of Term III Exams. Use it to answer the questions that follow.

Marks	70	90	80
No. of pupils	3	2	5

- (a) How many pupils did the test? (02 Marks)

- (b) Find the mean mark of the test. (03 Marks)

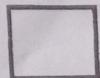
30. The circle graph below shows the number of candidates who passed in different grades at ABC Primary School.



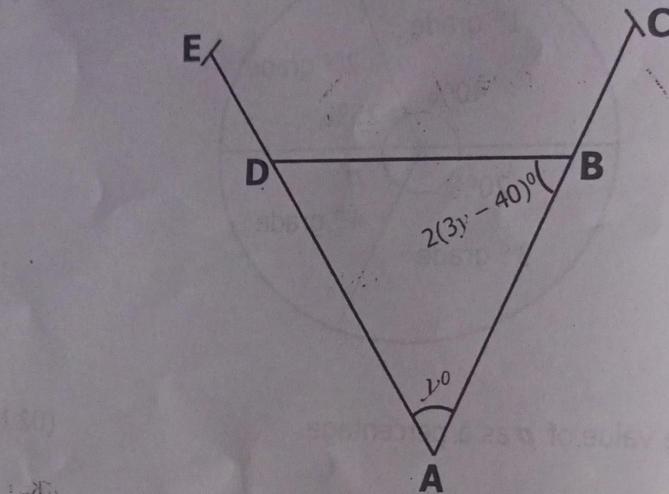
(a) Find the value of p as a percentage. (02 Marks)

(b) If 240 candidates passed in 1st grade, find the total number of candidates who sat their PLE at ABC Primary School. (02 Marks)

(c) Express the number of candidates who passed in 4th grade in degrees. (01 Mark)



31. In the figure below, angle ABD is twice angle ADB. Study it and use it to answer the questions that follow.



(a) Calculate the value of y in degrees.

(03 Marks)

(b) Find the size of the obtuse angle BDE.

(02 Marks)

use it

32. Eunice started driving at 7:30a.m from town Q to town R at a steady speed of 80km/h for $1\frac{1}{2}$ hours. After resting for half an hour, she continued to town S driving at a steady speed of 84km/h for 2 hours.

(a) At what time did she reach town S? (02 Marks)

(b) Find her average speed for the whole journey. (03 Marks)

